

MATC9 Ch01.2 KeyConcepts 1 Estimation Worked Example

Example: Estimate the answer to the calculation $11.7 \times 3.1 \times 2.7$.

Solution: Round each number to the nearest integer. Then, multiply.

$$\begin{aligned} 11.7 \times 3.1 \times 2.7 &\doteq 12 \times 3 \times 3 \\ &= 12 \times 9 \\ &= 108 \end{aligned}$$

The estimated answer is 108.

Practice:

1. Students in a Canadian school sent a gift of 1240 pencils to a Cuban school with 18 classes of 22 students each. Approximately how many pencils did each Cuban student receive?
2. Sally was sponsored at \$0.75 per kilometre for a Terry Fox run. The course is 3.3 km long, and she ran the course 11 times. Estimate the total amount raised by Sally's run to the nearest ten dollars.

Answers: 1. 3. 2. \$30.